Acer LCD Monitor

User's Guide

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Acer LCD Monitor User's Guide
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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your computer. All correspondence concerning your unit should include the serial number, model number and purchase information.

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Acer LCD Monitor User's Guide

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

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Special notes on LCD monitors

The following are normal with the LCD monitor and do not indicate a problem.

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the power switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has 99.99% or more effective pixels. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the power switch for a few hours.

Information for your safety and comfort

Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

Cleaning your monitor

Please carefully follow these guidelines when cleaning the monitor:

- Always unplug the monitor before cleaning.
- Use a soft cloth to wipe the screen and cabinet front and sides.

Connecting/disconnecting the device

Observe the following guidelines when connecting and disconnecting power from the LCD monitor:

- Make sure the monitor is attached to its base before connecting the power cord to the AC power outlet.
- Make sure both the LCD monitor and the computer are turned off before connecting any cable or unplugging the power cord.
- If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power from the equipment, be sure to unplug the power cord from the electrical outlet.

Safe listening

To protect your hearing, follow these instructions.

- Gradually increase the volume until you can hear it clearly and comfortably and without distortion.
- After setting the volume level, do not increase it after your ears have adjusted.
- Limit the amount of time listening to music at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage internal devices.
- Your device uses one of the following power supplies:

Object/ Part No.	Manufacturer/ Trademark	Type/ Model
Power Adapter	DELTA	ADP-65JH DB
		ADP-65VH D
	APD	DA-50F19
	Meikai	PDN-65B-18

Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total

ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.

- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's power cord is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the power cord plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.

Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.

Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, type SPT-2, rated 7 A 125 V minimum, VDE approved or its equivalent, 4.5 meters (15 feet) maximum length.

Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions

Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

Potentially explosive environments

Switch off your device in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

IT Equipment Recycling Information

Acer is strongly committed to environmental protection and views recycling, in the form of salvaging and disposal of used equipment, as one of the company's top priorities in minimizing the burden placed on the environment.

We at Acer are very conscious of the environmental effects of our business and strive to identify and provide the best working procedures to reduce the environmental impact of our products.

For more information and help when recycling, please go to this website:
http://www.acer-group.com/public/Sustainability/

Visit www. acer-group .com for further information on the features and benefits of our other products.

Disposal instructions

Do not throw this electronic device into the trash when discarding.
To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit
http://www.acer-group.com/public/Sustainability

LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

This product has been shipped enabled for power management:

- Activate display's Sleep mode within 15 minutes of user inactivity.
- Activate computer's Sleep mode within 30 minutes of user inactivity.
- Wake the computer from Sleep mode by pushing the power button.

Tips and information for comfortable use

Computer users may complain of eyestrain and headaches after prolonged use. Users are also at risk of physical injury after long hours of working in front of a computer. Long work periods, bad posture, poor work habits, stress, inadequate working conditions, personal health and other factors greatly increase the risk of physical injury.

Incorrect computer usage may lead to carpal tunnel syndrome, tendonitis, tenosynovitis or other musculoskeletal disorders. The following symptoms may appear in the hands, wrists, arms, shoulders, neck or back:

- numbness, or a burning or tingling sensation
- aching, soreness or tenderness
- pain, swelling or throbbing
- stiffness or tightness
- coldness or weakness

If you have these symptoms, or any other recurring or persistent discomfort and/or pain related to computer use, consult a physician immediately and inform your company's health and safety department.

The following section provides tips for more comfortable computer use.

Finding your comfort zone

Find your comfort zone by adjusting the viewing angle of the monitor, using a footrest, or raising your sitting height to achieve maximum comfort. Observe the following tips:

- refrain from staying too long in one fixed posture
- avoid slouching forward and/or leaning backward
- stand up and walk around regularly to remove the strain on your leg muscles

Taking care of your vision

Long viewing hours, wearing incorrect glasses or contact lenses, glare, excessive room lighting, poorly focused screens, very small typefaces and low-contrast displays could stress your eyes. The following sections provide suggestions on how to reduce eyestrain.

Eyes

- Rest your eyes frequently.
- Give your eyes regular breaks by looking away from the monitor and focusing on a distant point.
- Blink frequently to keep your eyes from drying out.

Display

- Keep your display clean.
- Keep your head at a higher level than the top edge of the display so your eyes point downward when looking at the middle of the display.
- Adjust the display brightness and/or contrast to a comfortable level for enhanced text readability and graphics clarity.
- Eliminate glare and reflections by:
    - placing your display in such a way that the side faces the window or any light source
    - minimizing room light by using drapes, shades or blinds
    - using a task light
    - changing the display's viewing angle
    - using a glare-reduction filter
    - using a display visor, such as a piece of cardboard extended from the display's top front edge
- Avoid adjusting your display to an awkward viewing angle.
- Avoid looking at bright light sources, such as open windows, for extended periods of time.

Developing good work habits

Develop the following work habits to make your computer use more relaxing and productive:

- Take short breaks regularly and often.
- Perform some stretching exercises.
- Breathe fresh air as often as possible.
- Exercise regularly and maintain a healthy body.

CE

Declaration of Conformity

We,

Acer Incorporated
8F, 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan
Contact Person: Mr. RU Jan, e-mail:ru.jan@acer.com

And,

Acer Italy s.r.l
Via Lepetit, 40, 20020 Lainate (MI) Italy
Tel: +39-02-939-921 ,Fax: +39-02 9399-2913
www.acer.it

Declare under our own responsibility that the product:

Product:	**LCD Monitor**
Trade Name:	**Acer**
Model Number:	**FT220HQL**
SKU Number:	**FT220HQL xxxxxx (“x” = 0~9, a ~ z, A ~ Z, or blank)**

To which this declaration refers conforms to the relevant standard or other standardizing documents:

- EN55022:2006/A1:2007 Class B; EN55024:2010
- EN 61000-3-2:2006+A1:2009+A2:2009, Class D
- EN61000-3-3:2008
- EN60950-1:2006/A11:2009/A1:2010+A12:2011
- EN50581:2012

We hereby declare above product is in compliance with the essential requirements and other relevant provisions of EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC, and RoHS Directive 2011/65/EU and Directive 2009/125/EC with regard to establishing a framework for the setting of ecodesign requirements for energy-related product.

Year to begin affixing CE marking 2013.

RU Jan / Sr. Manager
Regulation, Acer Inc.

Sep. 16, 2013
Date

Federal Communications Commission
Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following local Manufacturer /Importer is responsible for this declaration:

Product:	LCD Monitor
Model Number:	FT220HQL
SKU Number:	FT220HQL xxxxxx (“x” = 0~9, a ~ z, A ~ Z or Blank)
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St. Suite 1500 San Jose, CA 95110 U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
Fax No.:	254-298-4147

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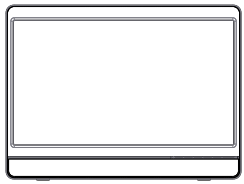
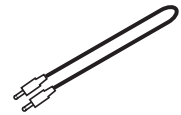
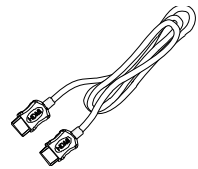
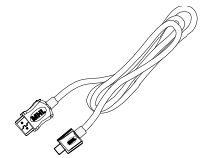
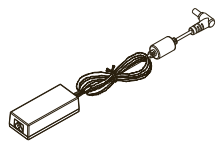
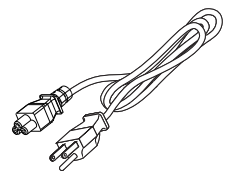
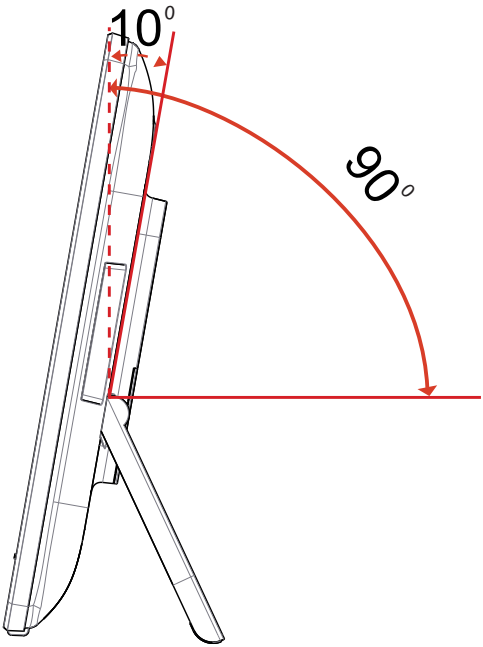
Unpacking

Please check that the following items are present when you unpack the box, and save the packing materials in case you need to ship or transport the monitor in the future.

LCD monitor	Quick start guide	Audio Cable (Optional)
		
D-sub cable (Optional)	**HDMI cable (Optional)**	**MHL cable (Optional)**
		
USB cable (Optional)	**Power Adapter**	**AC power cord**
		

Screen position adjustment

In order to optimize the best viewing position, you can adjust the monitor tilt of the monitor by using both of your hands to hold the edges of the monitor as shown in the figure below. The monitor can be adjusted to 10 degrees or 90 degrees up as indicated by arrow below.



Connecting the power cord

- Check first to make sure that the power cord you use is the correct type required for your area.
- The monitor has a universal power supply that allows operation in either 100/120 V AC or 220/240 V AC voltage area. No user-adjustment is required.
- Plug one end of the power cord to the AC inlet, and plug the other end into an AC outlet.
- For units using 120 V AC:
  Use a UL-listed cord set, type SVT wire and plug rated 10 A/125 V.
- For units using 220/240 V AC:
  Use a cord set consisting of H05VV-F cord and plug rated 10 A/250 V. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power saving

The monitor will be switched to "power saving" mode by the control signal from the display controller, as indicated by the amber-colored power LED.

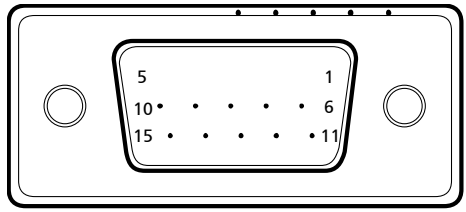
Mode	LED light
On	Blue
Power saving	Amber

The power saving mode will be kept until a control signal has been detected or the keyboard or mouse is activated. The recovery time from "power saving" mode back to "on" is around 3 seconds.

Display Data Channel (DDC)

To make installation easier, so long as your system supports the DDC protocol, the monitor is able to plug-and-play. The DDC is a communication protocol through which the monitor automatically informs the host system about its capabilities; for example, supported resolutions and corresponding timing. The monitor supports the DDC2B standard.

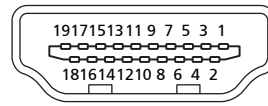
Connector pin assignment



15-pin color display signal cable

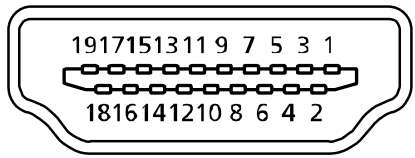
PIN No.	Description	PIN No.	Description
1	Red	9	+5 V
2	Green	10	Logic ground
3	Blue	11	Monitor ground
4	Monitor ground	12	DDC-serial data
5	Self test	13	H-sync
6	R-ground	14	V-sync
7	G-ground	15	DDC-serial clock
8	B-ground		

19-pin Color Display Signal Cable*



PIN No.	Description	PIN No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2–	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1–
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0–	10	TMDS Clock+
11	HDMI_DET	12	TMDS Clock–
13	Reserved (N.C. on device)	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

* only for certain models



*19-Pin Color Display Signal Cable

PIN NO.	DESCRIPTION
7.	MHL+
9.	MHL-
18.	VBUS
19.	CBUS
5, 11, 17	GND

*Only for MHL models

Standard Timing Table

Mode	Resolution			
1	VGA	640x480	60	Hz
2	MAC	640x480	66.66	Hz
3	VESA	720x400	70	Hz
4	SVGA	800x600	56	Hz
5	SVGA	800x600	60	Hz
6	XGA	1024x768	60	Hz
7	XGA	1024x768	70	Hz
8	VESA	1152x864	75	Hz
9	SXGA	1280x1024	60	Hz
10	VESA	1280x720	60	Hz
11	WXGA	1280x800	60	Hz
12	WXGA+	1440x900	60	Hz
13	WSXGA+	1680x1050	60	Hz
14	UXGA	1920x1080	60	Hz

*Only for MHL-Model

Mode	Resolution
1	640x480 @60Hz
2	720x480 @60Hz
3	720x576 @50Hz
4	800x600 @60Hz
5	1024x768 @60Hz
6	1280x720 @60Hz
7	1280x720 @50Hz
8	1920x1080i @60Hz
9	1920x1080i @50Hz
10	1920x1080 @30Hz
11	1920x1080p @60Hz
12	1920x1080p @50Hz
13	720(1440)x480i @60Hz
14	720(1440)x576i @50Hz

INSTALLATION

To install the monitor to your host system, please follow the steps as given below:

Steps

1. 1-1 Connect Video Cable
   a. Make sure both the monitor and computer are powered-OFF.
   b. Connect the VGA video cable to the computer.

1-2/1-3 Connect HDMI or MHL Cable
   a. Make sure both the monitor and computer are powered-OFF.
   b. Connect the HDMI cable to the computer or connect MHL cable to the portable device.

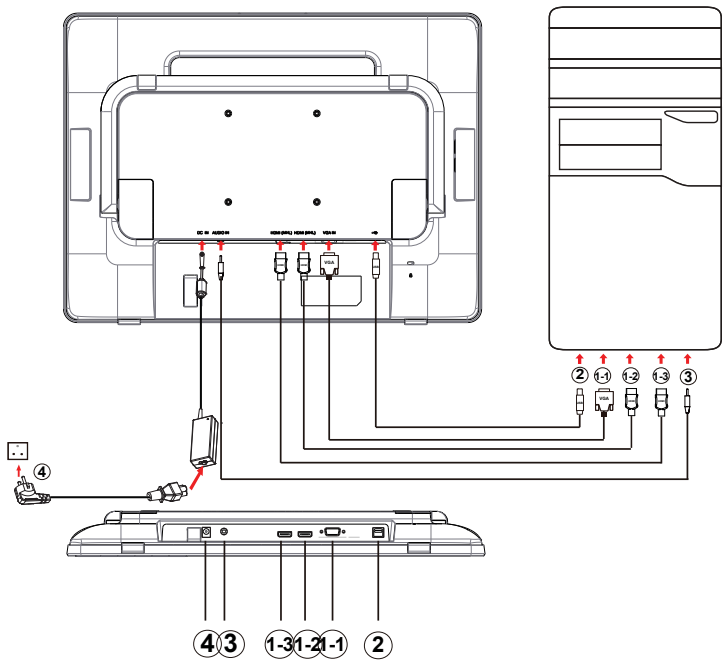
2.Connect the USB Cable(Optional)

3.Connect the Audio Cable(Only Audio-Input Model)(Optional)

4. Connect power adapter and power cord
   Connect the power adapter and power cord to the monitor, then to a properly grounded AC outlet.

5. Power-ON Monitor and Computer
   Power-ON the monitor first, then power-ON the computer.
   This sequence is very important.

6. If the monitor still does not function properly, please refer to the troubleshooting section to diagnose the problem.

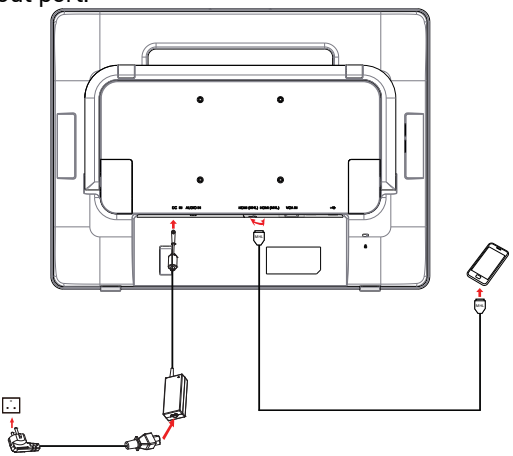


MHL (Mobile High-Definition Link) (Only for MHL-input Models)

Mobile High-Definition Link is a digital interface for transmitting video and audio from an external portable device. It is also capable of charging a portable device (5 V @ 900 mA).

Connecting the devices

Plug the MHL-certified cable into the display's HDMI® (MHL) port and the portable device's HDMI®-out port.



Using MHL

MHL-certified portable devices will automatically display content on the monitor, provided the output display and audio formats are supported by the portable device.

When the portable device is in standby mode, the monitor will show a black screen or turn to standby mode, depending on the portable device's output signal.

Due to the difference in size and resolution between the monitor and the portable device, you may find the display quality not as crisp as it appears on the portable device. This may be due to the portable device changing the output format.

This monitor only receives content from the portable device. It is not capable of controlling the portable device.

USER CONTROLS

⏻ Power Switch / Power LED:
To turn the monitor ON or OFF.
Lights up to indicate the power is turned ON.

Using the Shortcut Menu

Press the function button to open the shortcut menu. The shortcut menu lets you quickly select the most commonly accessed settings.

ℯ Empowering:
Press the Empowering Key to open the eColor Management OSD and access the scenario modes.

AUTO Auto Adjust:
Press this button to activate the Auto Adjustment function. The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

MENU OSD functions:
Press this botton to activate the OSD menu.

Volume Up/Down:
Press to adjust volume(only Audio-Input Mode)(Optional).

INPUT Input Key:
Use Input key to select from different video sources that may be connected to your monitor.
(a) VGA input (b) HDMI(MHL) input (c) HDMI(MHL) input
As you cycle through the sources you will see the following messages on right top side of screen to indicate currently selected input source. It may take 1 or 2 seconds for the image to appear.
VGA or HDMI or MHL
If either VGA or HDMI or MHL input is selected ,but the VGA and HDMI and MHL lables are not connected, a floating dialog box indicates:
"No Cable Connect" or "No Signal"

Acer eColor Management

Operation instructions

Step 1: Press " e " Key to open the Acer eColor Management OSD and access the scenario modes
Step 2: Press " ◄ " or " ► " to select the mode
Step 3: Press " AUTO " Key to confirm the mode and exit the eColor menu.

Features and Benefits

Main Menu icon	Sub Menu icon	Sub Menu item	Description
	N/A	User mode	User defined. Settings can be fine-tuned to suit any situation
	N/A	ECO mode	Adjusts the settings to reduce power consumption.
	N/A	Standard mode	Default Setting. Reflects native display capability
	N/A	Grahpic mode	Enhances colors and emphasize fine detail. Pictures and photographs appear in vibrant colors with sharp detail.
	N/A	Movie mode	Displays scenes in clearest detail. Presents great visuals, even in unsuitably-lit environments.

Adjusting the OSD settings

Note: The following content is for general reference only. Actual product specifications may vary.

The OSD can be used for adjusting the settings of your LCD Monitor. Press the MENU key to open the OSD. You can use the OSD to adjust the picture quality, OSD position and general settings. For advanced settings, please refer to following page:

Adjusting the picture quality

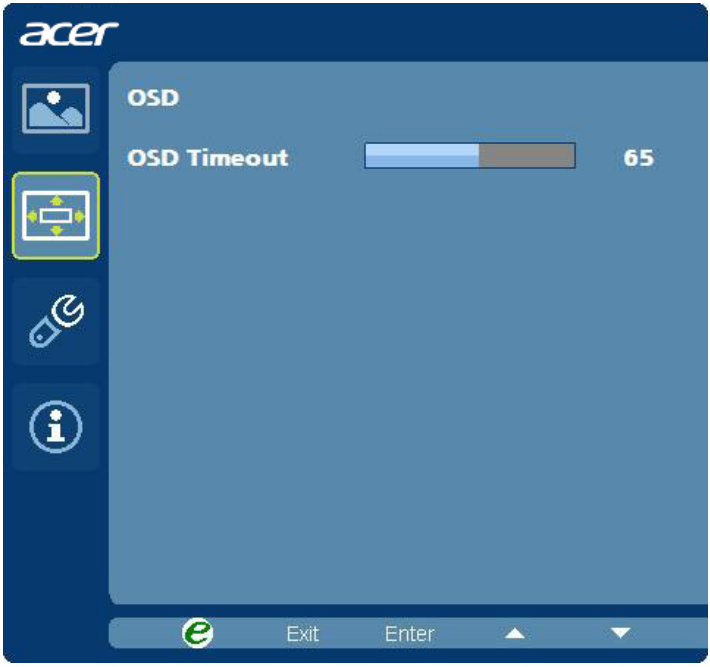
1 Press the MENU key to bring up the OSD.

2 Using the ◄ / ► keys, select Picture from the OSD. Then navigate to the picture element you wish to adjust.

3 Use the ◄ / ► keys to adjust the sliding scales.

4 The Picture menu can be used to adjust the current Brightness, Contrast, Colour Temp, Auto Config and other image-related qualities.

Adjusting the OSD position



1 Press the MENU key to bring up the OSD.

2 Using the directional keys, select OSD from the on screen display. Then navigate to the feature you wish to adjust.

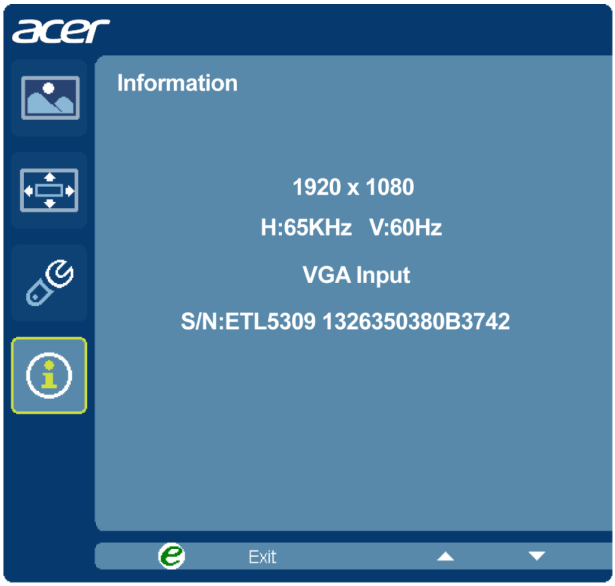
Adjusting the setting

1 Press the MENU key to bring up the OSD.

2 Using the ◄ / ► keys, select Setting from the OSD. Then navigate to the feature you wish to adjust.

3 The Setting menu can be used to adjust the screen Menu Language and other important settings.

Product information



1 Press the MENU key to bring up the OSD.

2 Using the ◄ / ► keys, select Information from the OSD. Then the basic information of LCD monitor will show up for current input.

Troubleshooting

Before sending your LCD monitor for servicing, please check the troubleshooting list below to see if you can self-diagnose the problem.

VGA mode

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch. Check if the power cord is properly connected to the monitor.
	Amber	Check if the video signal cable is properly connected at the back of monitor. Check if the computer system is switched on and in power saving/ standby mode.
Unstable picture		Check if the specification of graphics adapter and monitor is in compliance which may be causing the input signal frequency mismatch.
Abnormal picture	Image is missing, off-center, too large or too small on the screen.	Using the OSD, adjust focus, clock, H-position and V-position with non-standard signals. Check the display setting on your system. In case of a missing image, please select another resolution or vertical refresh rate. Wait for a few seconds after adjusting the size of the image before changing or disconnecting the signal cable or switching off the monitor.

HDMI mode

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch. Check if the AC power cord is properly connected to the monitor.
	Amber	Check if the video signal cable is properly connected at the back of monitor. Check that the computer system is switched on and in power saving/ standby mode.

Getting started with Windows 8 on your new touch-enabled Monitor

We know this is a new operating system that will take some getting used to, so we've created a few pointers to help you get started.

** Note: For the touchscreen & USB function to work, you need to connect the USB cable to the NB or PC, as well as connecting through a VGA or HDMI cable.*

Three concepts you might want to keep in mind

1. ***Start***

The Start button is no longer available; you can launch apps from the *Start* screen.

2. **Tiles**

Live tiles are similar to thumbnails of the programs.

3. **Charms bar**

The Charms bar is a context-sensitive area containing settings and other useful functions.

How do I open the Charms bar?

Swipe the right-hand edge of the screen inwards to open the Charms bar.

How do I get to *Start*?

Press the Windows key, or swipe the right-hand edge of the screen to open the Charms bar and tap **Start**.

How do I jump between programs/apps?

Swipe the left-hand edge of the screen inwards to cycle through programs/apps that are currently running.

Alternatively you can drag the left-hand edge of the screen in slightly and release the thumbnail to open thumbnails of current programs/apps.

How do I turn off my computer?

Open the Charms bar, tap **Settings** > **Power** and select the action you'd like to take. Alternatively, from *Desktop*, tap **Acer Power Button** and select the action you'd like to take.

For more information please refer to **your computer's User's Manual** (open the Charms bar and search for 'User's Manual') or visit the following pages:

- Windows 8 tutorials: **www.acer.com/windows8-tutorial**
- Support FAQs: **www.acer.com/support.acer.com**

What is this thing called "Metro?"

"Metro" is a new interface for Windows 8 that is designed to work well with touch input. Programs written for Metro will automatically use the whole screen and don't require closing in the traditional way. Metro apps will be displayed on *Start* using live-tiles.

What are "live tiles?"

Live tiles are similar to thumbnails of the programs that will be updated with new content whenever you're connected to the Internet. So, for example, you can view weather or stock updates without needing to open the app.